	Application No.	Applicant(s)	
	08/711,961	BRANSTROM ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Daniel M. Sullivan	1636	
The MAILING DATE of this communication All claims being allowable, PROSECUTION ON THE MERI herewith (or previously mailed), a Notice of Allowance (PTO NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATE of the Office or upon petition by the applicant. See 37 CFR	ITS IS (OR REMAINS) CLOSED in OL-85) or other appropriate commu ENT RIGHTS. This application is s	this application. If not included nication will be mailed in due could	rse. THIS
1. \boxtimes This communication is responsive to <u>the Paper filed</u>	16 December 2005.		
2. 🔀 The allowed claim(s) is/are <u>56-65</u> .			
 3. Acknowledgment is made of a claim for foreign prior a) All b) Some* c) None of the: 1. Certified copies of the priority document 2. Certified copies of the priority document 	ts have been received.		
3. Copies of the certified copies of the prior			from the
International Bureau (PCT Rule 17.2(a))	•	,	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING Donoted below. Failure to timely comply will result in ABAN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the require	ements
4. A SUBSTITUTE OATH OR DECLARATION must be INFORMAL PATENT APPLICATION (PTO-152) whi	e submitted. Note the attached EXA ch gives reason(s) why the oath or	MINER'S AMENDMENT or NOTI declaration is deficient.	CE OF
5. CORRECTED DRAWINGS (as "replacement sheets	s") must be submitted.		
(a) including changes required by the Notice of Dra	ftsperson's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date	•		
(b) ☐ including changes required by the attached Exa Paper No./Mail Date	miner's Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 each sheet. Replacement sheet(s) should be labeled as su	CFR 1.84(c)) should be written on thuch in the header according to 37 CF	e drawings in the front (not the bac R 1.121(d).	k) of
 DEPOSIT OF and/or INFORMATION about the attached Examiner's comment regarding REQUIRE 			the
Attachment(s) 1. ⊠ Notice of References Cited (PTO-892)	5. ☐ Notice of Inf	ormal Patent Application (PTO-15	52)

of Biological Material

2. Notice of Draftperson's Patent Drawing Review (PTO-948)

Paper No./Mail Date _____

4. Examiner's Comment Regarding Requirement for Deposit

3. Information Disclosure Statements (PTO-1449 or PTO/SB/08),

6. ☑ Interview Summary (PTO-413), Paper No./Mail Date _____.

9. Other ____.

7. ⊠ Examiner's Amendment/Comment

8.

Examiner's Statement of Reasons for Allowance

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Ann S. Hobbs on 8 February 2006.

The application has been amended as follows:

In the claims

Claims 56, 59, 61 and 64 have been amended as follows:

- 56. (currently amended) A method for delivery of exogenous DNA capable of being expressed in an animal cell, said method comprising:
- (i) introducing said DNA into mutated *Shigella*, said *Shigella* having an attenuating factor which will result in lysis of said *Shigella* after entry into said <u>animal</u> cell, and having been further inactivated; and
- (ii) administering said *Shigella* to said <u>animal</u> cell, such that the *Shigella*, once inside the <u>animal</u> cell, will lyse, thereby delivering to the <u>animal</u> cell the DNA capable of being expressed therein.
- 59. (currently amended) The method of claim 56 wherein said mammalian animal cell is a cell of an intestinal mucosal epithelium.

61. (currently amended) A method for delivering DNA capable of being expressed in a mucosal epithelium cell, said method comprising:

(i) introducing said DNA into a mutated strain of Shigella which is unable to synthesize active

aspartate β -semialdehyde dehydrogenase of the DAP pathway and which <u>has</u> been further

inactivated; and

(ii) administering the Shigella of (i) to a mucosal epithelium cell such that the Shigella, after

uptake by said mucosal epithelium cell, will lyse, thereby delivering to the mucosal epithelium

cell the DNA capable of being expressed therein.

64. (currently amended) The method of claim 61 wherein said mammalian mucosal epithelium

cell is a cell of an intestinal mucosal epithelium.

Notice of References Cited

The patent cited on the enclosed PTO-892 was the basis of the double patenting rejection overcome by the filing of a terminal disclaimer. The original rejection was provisionally made over the corresponding application and the patent was not cited on an 892 when the rejection was made over the issued patent. Therefore, the patent had not been properly made of record during prosecution.

Art Unit: 1636

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel M Sullivan whose telephone number is 571-272-0779. The examiner can normally be reached on Monday through Friday 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Remy Yucel, Ph.D. can be reached on 571-272-0781. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) (http://pair-direct.uspto.gov) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC) at 800-786-9199.

Daniel M. Sullivan, Ph.D. Examiner
Art Unit 1636

DANIEL M. SULLIVAN PATENT EXAMINER